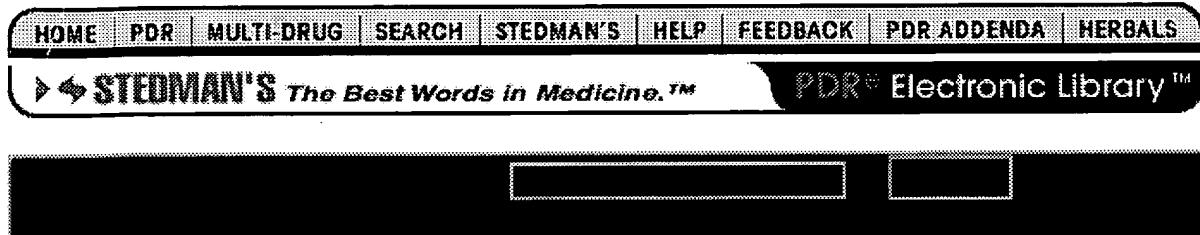


WEST Search History

DATE: Friday, June 14, 2002

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L7	bovine parainfluenza expression vector	0	L7
L6	bovin parainfluenza expression vector	0	L6
L5	kansas strain	0	L5
L4	parainfluenza expression vector	0	L4
L3	parainfluenza expression vector.clm.	0	L3
L2	parainfluenza and expression vector.clm.	18	L2
L1	parainfluenza and expression vector	260	L1

END OF SEARCH HISTORY



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expression

1. Squeezing out; expelling by pressure. 2. Mobility of the features giving a particular emotional significance to the face. SYN: facies (3) [TA]. 3. Any act by an individual. 4. Something that manifests something else. 5. The act of allowing information to become manifest. 6. A mathematical function consisting of a combination of constants, variables, other functions, and mathematical operations. differential gene e. gene e. that responds to signals or triggers; a means of gene regulation; E.G., effects of certain hormones on protein biosynthesis. gene e. 1. the detectable effect of a gene. 2. appearance of an inherited trait; for many genetic (e.g., recessiveness, hypostasis, parastasis) and environmental (the absence of pertinent challenges) reasons, a gene may not be expressed at all. In those circumstances, it will have no impact on Darwinian evolution. integrated rate e. an equation of a chemical or enzyme-catalyzed reaction for the entire progress curve. e. library a collection of plasmid or phage containing a representative sample of cDNA or genomic fragments that are constructed in such a way that they will be transcribed and translated by the host organism (usually bacteria).

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L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 2000:183061 CAPLUS
DN 132:333106

TI A recombinant human parainfluenza virus type 3 (PIV3) in which the nucleocapsid N protein has been replaced by that of bovine PIV3 is attenuated in primates

AU Bailly, Jane E.; McAuliffe, Josephine M.; Durbin, Anna P.; Elkins, William R.; Collins, Peter L.; Murphy, Brian R.

CS Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, 20892, USA

SO Journal of Virology (2000), 74(7), 3188-3195
CODEN: JOVIAM; ISSN: 0022-538X

PB American Society for Microbiology

DT Journal

LA English

CC 15-2 (Immunochemistry)

AB Section cross-reference(s): 3, 10
The shipping fever (SF) and **Kansas** (Ka) strains of bovine parainfluenza virus type 3 (BPIV3) are restricted in their replication in rhesus monkeys 100- to 1,000-fold compared to human parainfluenza virus type 3 (HPIV3), and the Ka strain also was shown to be attenuated in humans. To initiate an investigation of the genetic basis of the attenuation of BPIV3 in primates, the authors produced viable **chimeric** HPIV3 recombinants contg. the nucleoprotein (N) open reading frame (ORF) from either BPIV3 Ka or SF in place of the HPIV3 N ORF. These **chimeric** recombinants were designated cKa-N and cSF-N, resp. Remarkably, cKa-N and cSF-N grew to titers comparable to those of their HPIV3 and BPIV3 parents in LLC-MK2 monkey kidney and Madin-Darby bovine kidney cells. Thus, the heterologous nature of the N protein did not impede replication in vitro. However, cKa-N and cSF-N were each restricted in replication in rhesus monkeys to a similar extent as Ka and SF, resp. This identified the BPIV3 N protein as a determinant of the host range restriction of BPIV3 in primates. These **chimeras** thus combine the antigenic determinants of HPIV3 with the host range restriction and attenuation phenotype of BPIV3. Despite their restricted replication in rhesus monkeys, the **chimeric** viruses induced a level of resistance to HPIV3 challenge in these animals which was indistinguishable from that conferred by immunization with HPIV3. The infectivity, attenuation, and immunogenicity of these BPIV3/HPIV3 **chimeras** suggest that the modified Jennerian approach described in the present report represents a novel method to design vaccines to protect against HPIV3-induced disease in humans.

ST human parainfluenza virus recombinant nucleocapsid protein primate;
sequence bovine parainfluenza virus 3

IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(N (nucleocapsid); a recombinant human parainfluenza virus type 3 (PIV3) with nucleocapsid N protein replacement by bovine PIV3 is attenuated in rhesus monkeys)

IT Bovine parainfluenza virus 3
Human parainfluenza virus 3
Immunity

d his

(FILE 'HOME' ENTERED AT 09:20:18 ON 14 JUN 2002)

FILE 'MEDLINE' ENTERED AT 09:20:27 ON 14 JUN 2002

L1 1 S KANSAS STRAIN
L2 3 S KANSAS AND PARAINFLUENZA
L3 1 S KANSAS AND CHIMER?

FILE 'CAPLUS' ENTERED AT 09:24:43 ON 14 JUN 2002

L4 2 S KANSAS AND CHIMER?

=> d his

(FILE 'HOME' ENTERED AT 09:20:18 ON 14 JUN 2002)

FILE 'MEDLINE' ENTERED AT 09:20:27 ON 14 JUN 2002

L1 1 S KANSAS STRAIN

L2 3 S KANSAS AND PARAINFLUENZA

L3 1 S KANSAS AND CHIMER?

FILE 'CAPLUS' ENTERED AT 09:24:43 ON 14 JUN 2002

L4 2 S KANSAS AND CHIMER?

FILE 'BIOSIS' ENTERED AT 09:28:42 ON 14 JUN 2002

L5 2 S KANSAS AND CHIMER?

WEST Search History

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L21	Murphy Brian R.in.	0	L21
<i>DB=JPAB; PLUR=YES; OP=ADJ</i>			
L20	Murphy Brian R.in.	0	L20
<i>DB=TDBD; PLUR=YES; OP=ADJ</i>			
L19	Murphy Brian R.in.	0	L19
<i>DB=EPAB; PLUR=YES; OP=ADJ</i>			
L18	Murphy Brian R.in.	13	L18
L17	Murphy B R.in.	0	L17
L16	parainfluenza and chimeric	4	L16
<i>DB=PGPB; PLUR=YES; OP=ADJ</i>			
L15	parainfluenza and chimeric.clm.	2	L15
L14	parainfluenza adj chimeric	0	L14
L13	parainfluenza and chimeric	63	L13
L12	parainfluenza	133	L12
L11	chimeric and attenuated.clm.	8	L11
L10	chimeric and attenuated	275	L10
L9	chimeric human bovine	0	L9
L8	chimeric virus.clm.	0	L8
L7	chimeric.clm.	282	L7
L6	chimeric	1887	L6
L5	chimeric parainfluenza	0	L5
L4	Murphy Brian R.in.	0	L4
L3	Bailly Jane E.in.	0	L3
L2	Bailly J E.in.	0	L2
<i>DB=DWPI; PLUR=YES; OP=ADJ</i>			
L1	Bailly J E.in.	1	L1

END OF SEARCH HISTORY

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chimeric

1. Relating to a chimera. Cf.:mosaicism.
2. Composed of parts that are of different origin and are seemingly incompatible.

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